

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-2. (Canceled)

3. (Currently amended) A sequence circuit display method for an injection molding machine having contacts and coils for controlling operation of the molding machine, said method comprising selectively inputting a name of a step in the operation of the molding machine from an input device; displaying a sequence circuit of the injection molding machine as a ladder diagram on a display device; and selectively inputting one of the contacts and coils in said ladder diagram, the displayed sequence circuit including contacts and coils corresponding to the selectively inputted one of the contacts and coils as the ladder diagram on the display device as set forth in claim 1, wherein said display of contacts, and coils, etc. of said ladder diagram in said display device comprises displaying ~~operating~~-step names in the operation of the injection molding machine.

4. (Currently amended) A sequence circuit display method for an injection molding machine having contacts and coils for controlling operation of the molding machine, said method comprising selectively inputting a name of a step in the operation of the molding machine from an input device; displaying a sequence circuit of the injection molding machine as a ladder diagram on a display device; and selectively inputting one of the contacts and coils in said ladder diagram, the displayed sequence circuit including contacts and

coils corresponding to the selectively inputted one of the contacts and coils as the ladder diagram on the display device~~as set forth in claim 1~~, wherein said display of contacts, and coils, etc. of said ladder diagram in said display device comprises selectively displaying one of:

an active display screen for displaying connection states of said contacts, and coils, etc. along with operations of the injection molding machine in real time and

a still display screen displaying the connection states of said contacts, and coils, etc. at a certain point of time in operation of the injection molding machine.

5. (Currently amended) A sequence circuit display method for an injection molding machine having contacts and coils for controlling operation of the molding machine, said method comprising displaying a sequence circuit of the injection molding machine as a ladder diagram on a display device and selectively inputting one of the contacts and coils in said ladder diagram to thereby display a sequence circuit including contacts and coils corresponding to the selectively inputted one of the contacts and coils as the ladder diagram on the display device~~as set forth in claim 2~~, wherein said display of contacts, and coils, etc. of said ladder diagram in said display device comprises displaying ~~operating~~ step names in the operation of the injection molding machine.

6. (Currently amended) A sequence circuit display method for an injection molding machine having contacts and coils for controlling operation of the molding machine, said method comprising displaying a sequence circuit of the injection molding machine as a ladder diagram on a display device and selectively inputting one of the contacts and coils

in said ladder diagram to thereby display a sequence circuit including contacts and coils corresponding to the selectively inputted one of the contacts and coils as the ladder diagram on the display device as set forth in claim 2, wherein said display of contacts, and coils, etc. of said ladder diagram in said display device comprises displaying the contact or coil contacts, coils, etc. corresponding to the selected input selectively inputted one of the contacts and coils, contact, coil, etc. and displaying other contacts, or coils, etc. differently from the selectively inputted one of contacts and coils in the display of the sequence circuit including contacts, coils, etc. corresponding to the selected input contact, coil, etc.

7. (Currently amended) A sequence circuit display method for an injection molding machine having contacts and coils for controlling operation of the molding machine, said method comprising displaying a sequence circuit of the injection molding machine as a ladder diagram on a display device and selectively inputting one of the contacts and coils in said ladder diagram to thereby display a sequence circuit including contacts and coils corresponding to the selectively inputted one of the contacts and coils as the ladder diagram on the display device as set forth in claim 2, wherein said display of contacts, and coils, etc. of said ladder diagram in said display device comprises selectively displaying one of:

an active display screen for displaying connection states of said contacts, and coils, etc. along with operations of the injection molding machine in real time and

a still display screen displaying the connection states of said contacts, and coils, etc. at a certain point of time in operation of the injection molding machine.

8. (Currently amended) A sequence circuit display method for an injection molding machine comprising:

displaying a sequence circuit in an injection molding machine as a ladder diagram on a display device, wherein

by a contact selection instruction and coil search instruction for the selected contact in the ladder diagram being given, a sequence circuit including coils corresponding to the selected contact is displayed as a ladder diagram on the display device, or and wherein

by a coil selection instruction and contact search instruction for the selected coil in the ladder diagram being given, a sequence circuit including contacts corresponding to the selected coil is displayed as a ladder diagram on the display device.